

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866097

Luminaire Tested: PRLX-2001-M-940-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

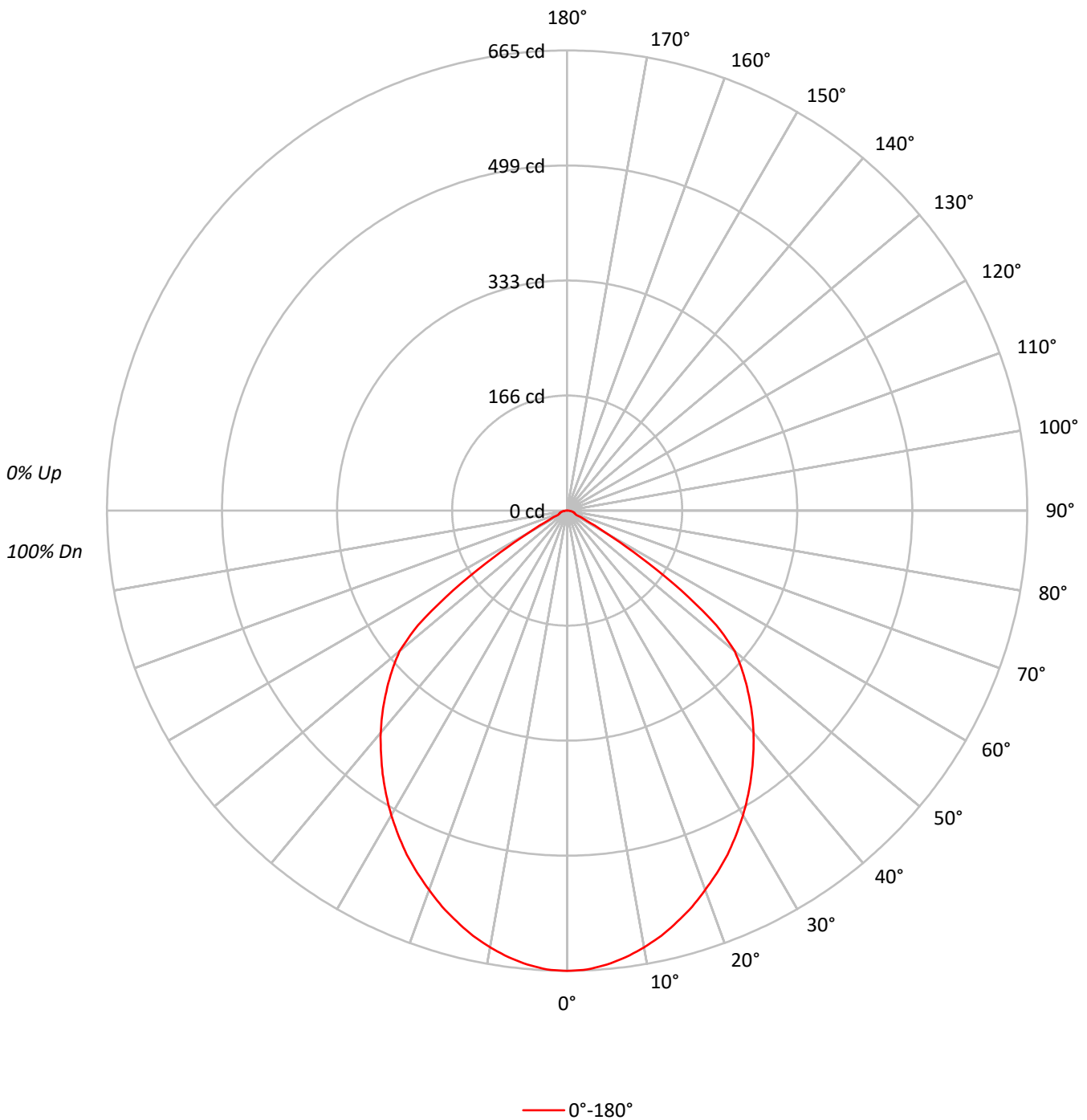
Lumens per Lamp: N/A
Luminaire Lumens: 1275.6 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.26
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5645
5°	5611
10°	5523
15°	5405
20°	5268
25°	5135
30°	4981
35°	4815
40°	4644
45°	4436
50°	4174
55°	2983
60°	1112
65°	293
70°	288
75°	311
80°	337
85°	331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	4.9
10°-20°	173.3	13.6
20°-30°	252.3	19.8
30°-40°	290.6	22.8
40°-50°	284.7	22.3
50°-60°	174.8	13.7
60°-70°	23.8	1.9
70°-80°	10.0	0.8
80°-90°	3.7	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	487.9	38.3
0°-40°	778.5	61.0
0°-60°	1238.1	97.1
0°-90°	1275.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	665	
5°	659	62
15°	615	173
25°	548	252
35°	465	291
45°	370	285
55°	202	175
65°	15	24
75°	10	10
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	665.2
2.5°	663.9
5°	658.7
7.5°	650.9
10°	641.0
12.5°	629.4
15°	615.2
17.5°	600.5
20°	583.3
22.5°	566.5
25°	548.4
27.5°	528.6
30°	508.3
32.5°	486.8
35°	464.8
37.5°	442.0
40°	419.2
42.5°	395.0
45°	369.6
47.5°	343.8
50°	316.2
52.5°	271.8
55°	201.6
57.5°	125.4
60°	65.5
62.5°	31.9
65°	14.6
67.5°	12.1
70°	11.6
72.5°	10.8
75°	9.5
77.5°	8.2
80°	6.9
82.5°	5.2
85°	3.4
87.5°	1.7
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.84	14.23	13.20	14.55	14.86	12.84	14.23	13.20	14.55	14.86
	3H	12.78	14.01	13.16	14.34	14.70	12.78	14.01	13.16	14.34	14.70
	4H	12.76	13.90	13.16	14.25	14.63	12.76	13.90	13.16	14.25	14.63
	6H	12.75	13.79	13.16	14.16	14.56	12.75	13.79	13.16	14.16	14.56
	8H	12.73	13.73	13.16	14.12	14.52	12.73	13.73	13.16	14.12	14.52
	12H	12.72	13.66	13.15	14.05	14.48	12.72	13.66	13.15	14.05	14.48
4H	2H	12.67	13.82	13.08	14.17	14.55	12.67	13.82	13.08	14.17	14.55
	3H	12.65	13.57	13.06	13.97	14.37	12.65	13.57	13.06	13.97	14.37
	4H	12.65	13.46	13.08	13.88	14.33	12.65	13.46	13.08	13.88	14.33
	6H	12.67	13.38	13.13	13.82	14.29	12.67	13.38	13.13	13.82	14.29
	8H	12.67	13.33	13.14	13.77	14.24	12.67	13.33	13.14	13.77	14.24
	12H	12.67	13.25	13.15	13.73	14.21	12.67	13.25	13.15	13.73	14.21
8H	4H	12.56	13.22	13.03	13.67	14.14	12.56	13.22	13.03	13.67	14.14
	6H	12.60	13.14	13.10	13.64	14.12	12.60	13.14	13.10	13.64	14.12
	8H	12.61	13.11	13.13	13.62	14.11	12.61	13.11	13.13	13.62	14.11
	12H	12.63	13.08	13.15	13.57	14.14	12.63	13.08	13.15	13.57	14.14
12H	4H	12.52	13.11	13.01	13.59	14.07	12.52	13.11	13.01	13.59	14.07
	6H	12.55	13.05	13.07	13.56	14.06	12.55	13.05	13.07	13.56	14.06
	8H	12.60	13.04	13.11	13.54	14.10	12.60	13.04	13.11	13.54	14.10